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Expertise

Electrical and Electronic Engineering

His current areas of interest are Power Electronics Applications, Application of High Frequency Converter, Energy Efficient Devices, Energy Efficient Drives, Computer Aided Power System Analysis, Condition Monitoring, Solar Energy, Renewable and Sustainable Energy and Lighting & Communication Systems for Underground Coal Mines.

Work experience

1. Indian Institute Of Technology (ISM)) Dhanbad 2022 — Present

Professor (HAG)
Dhanbad`

2. Indian Institute of Technology (ISM) Dhanbad 2010 — 2022

Professor
Dhanbad

3. Indian Institute of Technology (ISM) Dhanbad 2006 — 2009

Associate Professor
Dhanbad

4. Indian Institute of Technology (ISM) Dhanbad 2002 — 2005

Assistant Professor
Dhanbad

Birla Institute of Technology, Mesra, Ranchi 1999 — 2002

Assistant Professor
RANCHI

Education

1. Ph.D. (Engineering) - 2002

Jadavpur University

2. M.E.E. - 1999

Jadavpur University

3. B.E.E. (Honours) - 1997

Jadavpur University

Honours and Awards

1. Certificate of Appreciation - 2020

Department of Electrical Engineering, NIT Jamshedpur and SPRINGER

2. Lotfi Zadeh Memorial Award - 2019

ESDA 2019, Applied Computer Technology, Kolkata, WB

3. Certificate of Merit - 2006

Institution of Engineers (India)

4. Certificate of Merit - 2002

Institution of Engineers (India)

- 5.

Research Project

Dynamic Charging of Electric Vehicles Using Wireless Power Transfer Technique

Role: Principal Investigator
Year 2021, Amount 1000000

Simulation of high-frequency mirror inverter for energy efficient induction heated cooking oven using PSPIICE

Role: Principal Investigator
Year 2008, Amount Rs. 6,98,000/-

Publication

1. A comparative study on thermal performance of a 3-D model based solar photovoltaic panel through finite element analysis

Suman Kumar Laha, Pradip Kumar Sadhu, Ankur Ganguly, Ashok Kumar Naskar
Ain Shams Engineering Journal, Volume 13, Year 2022

2. Nature inspired evolutionary algorithm integrated performance assessment of floating solar photovoltaic module for low-carbon clean energy generation

Anik Goswami, Pradip Kumar Sadhu
Sustainable Operations and Computers, Volume 3, Year 2022, Pages 67-82

3. Techno-economic analysis for fertilizer house using hybrid power stations

Shiv Prakash Bihari, Pradip Kumar Sadhu
Soft Computing, Volume , Year 2022, Pages

4. A Novel Fixed BIPV Array for Improving Maximum Power with Low Mismatch Losses Under Partial Shading

Debayan Sarkar, Pradip Kumar Sadhu
IETE Journal of Research, Volume , Year 2022, Pages

5. Performance Assessment of Hybrid Triple-Tied BIPV Array Configurations for Maximising Power Output Under Patterns of Partial Shading

Sarkar, D., Sadhu, P.K
International Conference on Computational Techniques and Applications, Volume , Year 2022, Pages

6. Optimization of Performance Variables and Cost of Single-Phase Squirrel-Cage Type Induction Motors

Ghosh, P.K., Sadhu, P.K., Basak, R. et al
Journal of The Institution of Engineers (India): Series B, Volume 103, Year 2022, Pages 567-576

7. AWS IoT Core and Amazon DeepAR based predictive real-time monitoring

framework for industrial induction heating systems

Chakrabarti, A., Sadhu, P.K. & Pal, P
Microsystem Technologies, Volume , Year 2022, Pages

8. Effect of leakage inductance on solar panel based multiple output inverter for induction heating system

Bhaumik, K., Sadhu, P.K.
Microsystem Technologies, Volume 37, Year 2022, Pages

9. A new hybrid BIPV array for enhancing maximum power with reduced mismatch losses under extreme partial shading scenarios

Sarkar, Debayan, and Pradip Kumar Sadhu
Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Volume Volume 44, Issue 2, Year 2022, Pages 5172-5198

10. A novel dead-time elimination strategy for voltage source inverters in induction heating systems through fractional order controllers

Chakrabarti, Arijit, Pradip Kumar Sadhu, and Palash Pal
revue roumaine des sciences techniques—série électrotechnique et énergétique, Volume 67, no. 2 , Year 2022, Pages 181-185

11. Photovoltaic grid management systems with sliding mode control

Dash, D.K., Sadhu, P.K. & Subudhi, B.
Microsystem Technologies, Volume 25, Year 2022, Pages

12. Smart Grid Modernization: Opportunities and Challenges

1. Dhara, Saumen, Alok Kumar Shrivastav and Pradip Kumar Sadhu
Electric Grid Modernization (2022), Volume , Year 2022, Pages

13. Application of Artificial Intelligence and Machine Learning Techniques in Island Detection in a Smart Grid

2. Dutta, S., Sadhu, P.K., Chelikuri, M. and Mohanta, D.K
Intelligent Renewable Energy Systems, Volume , Year 2022, Pages 79-109

14. Power quality enhancement of a hybrid energy source powered packed e-cell inverter using an intelligent optimization technique

Riyaz Ahmed, Sadhu Pradip Kumar, Iqbal Atif, Tariq Mohd
Journal of Intelligent and Fuzzy Systems, Volume 42, Year 2022, Pages 817-825

15. Adoption of floating solar photovoltaics on waste water management system: a unique nexus of water-energy utilization, low-cost clean energy generation and water conservation

Goswami, A., Sadhu, P.K.
Clean Technologies and Environmental Policy (2021), Volume , Year 2021, Pages

16. Degradation analysis and the impacts on feasibility study of floating solar photovoltaic systems

Anik Goswami, Pradip Kumar Sadhu
Sustainable Energy, Grids and Networks, Volume 26, Year 2021, Pages

17. **A Step-Up Multilevel Inverter Topology Using Novel Switched Capacitor Converters with Reduced Components**
Roy T.;Sadhu P.K.
IEEE Transactions on Industrial Electronics, Volume 68, Year 2021, Pages 236-247
18. **Stochastic firefly algorithm enabled fast charging of solar hybrid electric vehicles**
Anik Goswami, Pradip Kumar Sadhu
Ain Shams Engineering Journal, Volume 12, Year 2021, Pages 529-539
19. **An island detection approach by μ -PMU with reduced chances of cyber attack**
Apoorva Shukla, Soham Dutta, Pradip Kumar Sadhu,
International Journal of Electrical Power & Energy Systems, Volume 126, Part A, Year 2021, Pages 106599
20. **INTEGRATED GREEN SUBMERSIBLE PUMPING SYSTEM FOR FUTURE GENERATION**
Bidrohi Bhattacharjee, Pradip Kumar Sadhu, Ankur Ganguly, Ashok Kumar Naskar
Facta Universitatis-Series Electronics and Energetics, Volume 34, Year 2021, Pages 37-51
21. **A secured, reliable and accurate unplanned island detection method in a renewable energy based microgrid**
Soham Dutta, Sachin Ola, Pradip Kumar Sadhu
Engineering Science and Technology, an International Journal, Volume , Year 2021, Pages
22. **A Comprehensive Review of Microgrid Control Mechanism and Impact Assessment for Hybrid Renewable Energy Integration**
Bihari S.P.;Sadhu P.K.;Sarita K.;Khan B.;Arya L.D.;Saket R.K.;Kothari D.P.
IEEE Access, Volume 9, Year 2021, Pages 88942-88958
23. **Equivalent circuit modelling of a three-phase to seven-phase transformer using PSO and GA**
Tabrez Md, Iqbal Atif, Sadhu Pradip Kumar, Husain Mohammed Aslam, Bakhsh Farhad Ilahi, Singh, S. P.
Journal of Intelligent & Fuzzy Systems, Volume Pre-press, Year 2021, Pages 1-10
24. **Different diode models comparison using Lambert W function for extracting maximum power from BIPV modules**
Sarkar D.;Kumar A.;Sadhu P.K.
International Journal of Energy Research, Volume 45, Year 2021, Pages 691-702
25. **Analysis of mechanical stress and structural deformation on a solar photovoltaic panel through various wind loads**
Suman Kumar Laha ., Pradip Kumar Sadhu ., Rudra Sankar Dhar ., Rajesh Dey ., Sumanta Bhattacharya ., Ankur Ganguly ., Ashok Kumar Naskar .,
Microsystem Technologies, Volume 27, Year 2021, Pages 3465-3474
26. **Investigation on a flow transducer using modified force sensing technique**
Saikat Kumar Bera, Pradip Kumar Sadhu

27. **Comprehensive performance analysis of different MPPT algorithms for Building Integrated Photovoltaic system**
2021 IEEE Mysore Sub Section International Conference (MysuruCon), Year 2021
28. **Estimation of Maximum Power from roof-integrated BIPV modules using Lambert W function aided three-diode model**
Journal of Electrical Systems & Automation (JESA), Year 2021
29. **A Survey on Development and Recent Trends of Renewable Energy Generation from BIPV Systems**
Sarkar D.;Kumar A.;Sadhu P.K.
IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India), Volume 37, Year 2020, Pages 258-280
30. **High-Performance Algorithms To Ascertain The Power Generation In A Photovoltaic System Using Fuzzy Logic Controller**
M. L. Azad, S. Das, P. K. Sadhu and P. Arvind
2020 International Conference on Intelligent Engineering and Management (ICIEM), Volume , Year 2020, Pages
31. **Comparative Study Between P&O and Incremental Conduction MPPT Techniques- A Review**
M. L. Azad, P. K. Sadhu and S. Das
2020 International Conference on Intelligent Engineering and Management (ICIEM), Volume , Year 2020, Pages
32. **Effect and Utilization of Leakage Inductance on the Performance of Multi-zone and Multi-load Half-Bridge Inverter Based Induction Heating System**
Bhaumik K., Datta A., Sadhu P.K.
Energy Systems, Drives and Automations , Volume , Year 2020, Pages 47-57
33. **Autonomy oriented computation for direct ac-ac cascaded boost converter**
Titus Kumar Nag ., Avik Datta ., Pradip Kumar Sadhu .,
Lecture Notes in Electrical Engineering, Volume 664, Year 2020, Pages 589-600
34. **Elements of Electrical Machines**
Pradip Kumar Sadhu, Soumya Das and Shiv Prakash Bihari
Elements of Electrical Machines, Volume , Year 2020, Pages 1-390
35. **μ PMU-based intelligent island detection-the first crucial step toward enhancing grid resilience with MG**
Soham Dutta, Maddikara Jaya Bharata Reddy, Dusmanta Kumar Mohanta, Makrand Sing Kushwah,
Pradip Kumar Sadhu
IET Smart Grid, Volume 3(2), Year 2020, Pages 162-173
36. **Basic Electrical Engineering**

37. **Energy efficient design of three phase induction motor by water cycle algorithm**

Pritish Kumar Ghosh, Pradip Kumar Sadhu, Raju Basak, Amarnath Sanyal
Ain Shams Engineering Journal , Volume , Year 2020, Pages

38. **Stability analysis of solar based induction heater**

Sujit Dhar, Pradip Kumar Sadhu, Debabrata Roy, Soumya Das, Dwaipayan Das
Microsystem Technologies, Volume 26, Year 2020, Pages 3037-3041

39. **A novel symmetric switched capacitor multilevel inverter using non-isolated power supplies with reduced number of components**

Roy T.;Sadhu P.K.
Sadhana - Academy Proceedings in Engineering Sciences, Volume 45, Year 2020

40. **Development of a Grid Connected Solar-Wind Hybrid System With Reduction in Levelized Tariff for a Remote Island in India**

Anik Goswami, Paromita Sadhu, Pradip Kumar Sadhu
Journal of Solar Energy Engineering, Volume 142, Year 2020, Pages

41. **Design analysis of high level inverter with EANFIS controller for grid connected PV system**

Shiv Prakash Bihari, Pradip Kumar Sadhu
Analog Integrated Circuits and Signal Processing, Volume 103, Year 2020, Pages 411-424

42. **Analysis of a three-phase to seven-phase transformer under unbalanced input**

Md Tabrez, Pradip Kumar Sadhu, Atif Iqbal, Farhad I. Bakhsh
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43. **Equivalent Two-Coil Model for a Four-Coil Wireless Power Transfer System**

Das A., Bhattacharya A., Sadhu P.
Recent Advances in Power Electronics and Drives, Volume , Year 2020, Pages 111-122

44. **Design and Analysis of Series Resonant Inverter-Based Induction Heating Equipment Employing Power Factor Correction for Harmonic Attenuation**

Raman R., Das M., Sarmah P., Dutta S.K., Saikia A., Sadhu P.K.
Recent Advances in Power Electronics and Drives, Volume , Year 2020, Pages 499-510

45. **Designing a Series Active Power Filter for Mitigating Harmonics of a High Frequency Resonant Inverter**

Sinha R., Raman R., Bhattacharya A., Sadhu P.K.
Recent Advances in Power Electronics and Drives, Volume , Year 2020, Pages 465-478

46. **Feasibility Study of the Solar-Powered and Induction CookingBased Mobile Food Court Station in Rural Area of West Bengal**

47. **A Multilevel Boost Converter-Fed High-Frequency Resonant Inverter for Induction Heating by Using ADC Control**
Kumaraswamy A., Bhattacharya A., Sadhu P.K.
Recent Advances in Power Electronics and Drives, Volume , Year 2020, Pages 47-57
48. **Mitigation Methods of Ground Leakage Current Caused by Common-Mode in Voltage Frequency Drives**
Szymanski J., Zurek-Mortka M., Sadhu P.K., Goswami A.
Energy Systems, Drives and Automations, Volume , Year 2020, Pages 1-11
49. **Power Quality Improvement in Induction Heating System Using Vienna Rectifier Based on Hysteresis Controller**
Kumar A.;Sarkar D.;Sadhu P.K.
Electric Power Components and Systems, Volume 48, Year 2020, Pages 892-905
50. **Performance analysis of packed U-cell based inverter-fed five-phase induction motor drive using SINPWM technique**
Ahmed, Riyaz, Sadhu Pradip Kumar, Iqbal Atif, Md. Abdullah Ansari
International Journal of Power Electronics and Drive Systems, Volume 11, Year 2020, Pages 1899~1907
51. **An efficient Mppt approach of PV systems: incremental conduction pathway**
Murari Lal Azad, Pradip Kumar Sadhu, P Arvind, Anagh Gupta, Tuhin Bandyopadhyay, Soumya Das, Sabyasachi Samanta
Indonesian Journal of Electrical Engineering and Computer Science, Volume 15, Year 2019, Pages 1189-1196
52. **Hybrid K Based Influential Parameter Determination and Design Optimization of 220 kV High Voltage Insulator**
Anik Goswami, Paromita Sadhu, Pradip Kumar Sadhu
ELEKTRONIKA IR ELEKTROTECHNIKA, Volume 25, Year 2019, Pages 23-28
53. **Improvement of Energy Efficiency and Effectiveness of Cooking for Parabolic-Type Solar Cooker Used with Activated-Carbon-Coated Aluminium Cooking Pot**
Anik Goswami, Subhajit Basu, Pradip Kumar Sadhu
Global Challenges, Volume , Year 2019, Pages
54. **A Temperature Compensated Non-contact Pressure Transducer using Hall sensor and Bourdon Tube**
Sirshendu Saha, Saikat Kumar Bera, Hiranmoy Mandal, Pradip Kumar Sadhu and Satish Chandra Bera
IEEE SENSORS JOURNAL, Volume 19, Year 2019, Pages 5429-5438
55. **Floating solar power plant for sustainable development: A techno-economic analysis**
Anik Goswami, Paromita Sadhu, Utpal Goswami and Pradip Kumar Sadhu

56. Further Study of the Sensing Ring Position on the Orifice Type Capacitive Flow Sensor

Haraprasad Mandal, Saikat Kumar Bera, Pradip Kumar Sadhu and Satish Chandra Bera
IEEE Transactions on Instrumentation and Measurement, Volume , Year 2019, Pages

57. Dynamic Behavior Improvement of Induction Heating Converters using Fuzzy Logic Controller

Anand Kumar, Rahul Raman, Pradip Kumar Sadhu
REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE , Volume 64, Year 2019, Pages 163-168

58. Study of an accurate electronic power measurement technique using modified current transformer and potential transformer

Sirshendu Saha, Saikat Kumar Bera, Hiranmoy Mandal, Pradip Kumar Sadhu, Satish Chandra Bera
Transactions of the Institute of Measurement and Control , Volume 41, Year 2019, Pages 3666-3678

59. Fast Estimating Method of Effective Life of Power Cable in Industrial Environment

S. Bihari, U. Goswami, A. Goswami and Pradip Kumar Sadhu
2019 23rd International Conference Electronics, Palanga, Lithuania, Volume , Year 2019, Pages 1-6

60. Analysis of a three-coil contactless power transfer system for high-power applications

Prabhat Chandra Ghosh, Pradip Sadhu and Ankita Ghosh
Journal of the Chinese Institute of Engineers, Volume 42, Year 2019, Pages 189-199

61. A new approach for the stability analysis of high-frequency series resonant inverter-fitted induction heater

Kaushik Neogi, Moumita Sadhu, Niladri Das, Pradip Kumar Sadhu, Agamani Chakraborty, Ankur Ganguly, Atanu Banerjee
Ain Shams Engineering Journal , Volume 10, Year 2019, Pages 185-194

62. Cross-Switched Multilevel Inverter using Novel Switched Capacitor Converters

Tapas Roy, Pradip Kumar Sadhu, Abhijit Dasgupta
IEEE Transactions on Industrial Electronics, Volume 10, Year 2019, Pages 8521-8532

63. Islanding detection in a distribution system: A pattern assessment based approach using Concordia analysis

Dutta S.;Verma S.;Sadhu P.K.;Reddy M.J.B.;Mohanta D.K.
2019 20th International Conference on Intelligent System Application to Power Systems, ISAP 2019, Volume , Year 2019

64. Comparative assessment and obstacles in the advancement of renewable energy in India and China

Kumar P.;Sharma H.;Pal N.;Sadhu P.K.
Problemy Ekorozwoju, Volume 14, Year 2019, Pages 191-200

65. **A novel three-phase multilevel inverter structure using switched capacitor basic unit for renewable energy conversion systems**
 Tapas Roy, Neha Aarzo, Pradip Kumar Sadhu, Abhijit Dasgupta
 International Journal of Power Electronics, Volume 10, Year 2019, Pages 133 - 154
66. **Islanding detection using bi-directional energy meter in a DFIG based active distribution network**
 Verma S.;Dutta S.;Sadhu P.K.;Bharata Reddy M.J.;Mohanta D.K.
 2019 International Conference on Computer, Electrical and Communication Engineering, ICCECE 2019, Volume , Year 2019
67. **Boost Power Factor Correction Converter fed Domestic Induction Heating System**
 Kumar A.;Sarkar D.;Sadhu P.K.
 2019 20th International Conference on Intelligent System Application to Power Systems, ISAP 2019, Volume , Year 2019
68. **Techno-Economic Performance Analysis of Four Photovoltaic Technology at North-East Region of India**
 Dash P.;Gupta N.;Rani P.;Chakraborty S.;Sadhu P.
 2018 International Conference on Power Energy, Environment and Intelligent Control, PEEIC 2018, Volume , Year 2019, Pages 751-754
69. **Role of microphasor measurement unit for decision making based on enhanced situational awareness of a modern distribution system**
 Dutta S.;Sadhu P.K.;Reddy M.J.B.;Mohanta D.K.
 Decision Making Applications in Modern Power Systems, Volume , Year 2019, Pages 181-199
70. **Modelling And Analysis of an Efficient Dc Reactor Type Superconducting Fault Current Limiter Circuit**
 Saumen Dhara, Pradip Kumar Sadhu, Alok Kumar Shrivastav
 REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE , Volume 64, Year 2019, Pages 205-210
71. **Analysis Of A Full-Bridge Direct Ac-Ac Boost Converter Based Domestic Induction Heater**
 Avijit Chakraborty, Arijit Chakrabarti, Pradip Kumar Sadhu
 REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE , Volume 64, Year 2019, Pages 223-228
72. **Design And Implementation Of A Photovoltaic Wind Hybrid System With The Assessment Of Fuzzy Logic Maximum Power Point Technique**
 Shiv Prakash Bihari, Pradip Kumar Sadhu, Soumya Das, P. Arvind, Anagh Gupta
 REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE, Volume 64, Year 2019, Pages 235-240
73. **Study of A PID Control System for Liquid Level Measurement Using Non Contact Type Sensor**
 Bhattacharya Saunak and Chakraborty Moumita and Sadhu Pradip Kumar and Bhadra Bias

74. Source Current Harmonics Suppression in Domestic Induction Heater

Avijit Chakraborty, Arijit Chakrabarti, Pradip Kumar Sadhu

REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE , Volume 64, Year 2019, Pages 45-50

75. MPPT Based PMSG Wind Turbine System Using Sliding Model Control (SMC) and Artificial Neural Network (ANN) Based Regression Analysis

Agarwal N.;Sadhu P.;Chakraborty S.

IETE Journal of Research (SCI), Volume , Year 2019, Pages

76. IoT based Street Light Visibility and Water Logging Monitoring for Development of a Smart City

S. K. Laha, A. Ganguly, R. Bhattacharya, P. K. Sadhu and A. K. Naskar

2018 7th International Conference on Reliability, Infocom Technologies and Optimization: Trends and Future Directions, ICRITO 2018, Volume , Year 2018, Pages 671-677

77. A novel instantaneous mode switching Bi-directional dc-dc converter for dc grid voltage control

S. K. Singh, A. Kumar and P. K. Sadhu

2018 International Conference on Power Energy, Environment and Intelligent Control (PEEIC), Greater Noida, India, Volume , Year 2018, Pages 187-190

78. Design Analysis of Full-Bridge Parallel Resonant Inverter for Induction Heating Application Using Pulse Density Modulation Technique

A. Kumar, P. K. Sadhu, R. Raman and J. Singh

2018 International Conference on Power Energy, Environment and Intelligent Control (PEEIC), Greater Noida, India, Volume , Year 2018, Pages 398-402

79. Analysis and Control Implementation for Instantaneous Mode Switching Bi-Directional Dc-Dc Converter for Plug-In Electric Vehicle

S. K. Singh, D. Kumar, M. Prakash, A. Kumar and P. K. Sadhu

2018 2nd International Conference on Power, Energy and Environment: Towards Smart Technology (ICEPE), Shillong, India, Volume , Year 2018, Pages 1-6

80. Improvement in Performance of Induction Heating System Using Direct AC-AC Boost Converter

S. K. Singh, D. Kumar, M. Prakash, A. Kumar and P. K. Sadhu

2018 2nd International Conference on Power, Energy and Environment: Towards Smart Technology (ICEPE), Shillong, India, Volume , Year 2018, Pages 1-5

81. Design and Analysis of EMI and RFI Suppressor for Induction Heating Equipment Using Vienna Rectifier

R. Raman, P. Sadhu, A. Kumar and P. k. Sadhu

2018 2nd International Conference on Power, Energy and Environment: Towards Smart Technology (ICEPE), Shillong, India, Volume , Year 2018, Pages 1-6

82. Design and analysis of RFI and EMI suppressor for high frequency induction heater using filters — A comparative study

R. Raman, P. K. Sadhu, A. Kumar and K. Sit

2018 4th International Conference on Recent Advances in Information Technology (RAIT), Dhanbad,
Volume , Year 2018, Pages 1-5

83. **Study of a Modified LVDT Type Displacement Transducer with Unlimited Range**

Hiranmoy Mandal, Saikat Kumar Bera, Sirshendu Saha, Pradip Kumar Sadhu and Satish Chandra Bera
IEEE SENSORS JOURNAL, Volume 18, Year 2018, Pages 9501-9514

84. **Shifting of Research Trends in Islanding Detection Method - A Comprehensive Survey**

Soham Dutta, P.K. Sadhu, M.Jaya Bharata Reddy and D.K. Mohanta
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85. **Smart Inadvertent Islanding Detection employing p-type μ PMU for an Active Distribution Network**

Soham Dutta, P.K. Sadhu, M.Jaya Bharata Reddy and D.K. Mohanta
IET Generation Transmission & Distribution, Volume 12, Year 2018, Pages 4615 – 4625

86. **An effective switching algorithm for single phase matrix converter in induction heating applications**

Anand Kumar, P.K. Sadhu, D.K. Mohanta and M. Jaya Bharata Reddy
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87. **Development and performance study of two diode model PV cell under multiple varying factors for PV generation**

S. K. Laha, P. K. Sadhu, A. Ganguly, A. K. Naskar and M. Halder
Proceedings - 2018 4th IEEE International Conference on Research in Computational Intelligence and Communication Networks, ICRCICN 2018, Volume , Year 2018, Pages 60-65

88. **Review of induction cooking - a health hazards free tool to improve energy efficiency as compared to microwave oven**

A. Shukla, M. Tripathy and P. K. Sadhu
2018 International Conference on Power Energy, Environment and Intelligent Control (PEEIC), Greater Noida, India, Volume , Year 2018, Pages 195-198

89. **A Novel Structure of Switched Capacitor Multilevel Inverter with Reduced Device Count**

S. Debatal, T. Roy, A. Dasgupta and P. K. Sadhu
2018 National Power Engineering Conference (NPEC), Madurai, Volume , Year 2018, Pages 1-6

90. **MATLAB-Based Simulation to analyze the aftermath of Partial Shading on Solar Cell**

S. kumar, Apoorva and P. K. Sadhu
2018 International Conference on Power Energy, Environment and Intelligent Control (PEEIC), Greater Noida, India, Volume , Year 2018, Pages 437-441

91. **Step-up Switched Capacitor Multilevel Inverter with a Cascaded Structure in Asymmetric DC Source Configuration**

Tapas Roy, Bidrohi Bhattacharjee, Pradip Kumar Sadhu, Abhijit Dasgupta and Srikanta Mohapatra
Journal of Power Electronics, Volume 18, Year 2018, Pages 1051-1066

92. **Energy Audit-A Clean, Alternative and Cost-Effective Way to Replace Conventional Energy**

S. Dhar, D. Roy, B. Dutta, A. Ganguly, P. K. Sadhu and D. Sengupta
2018 7th International Conference on Reliability, Infocom Technologies and Optimization: Trends and Future Directions, ICRITO 2018, Volume , Year 2018, Pages 188-197

93. **Enhancement of Reliability of Process Power Plant by Connecting SVC in Generator Bus during Grid Fault**

Utpal Goswami, Pradip Kumar Sadhu, Suprava Chakraborty
Journal of Power Technologies, Volume 98, Year 2018, Pages 239-244

94. **Nanocrystallines as core materials for contactless power transfer (CPT)**

Prabhat Chandra Ghosh, Pradip Kumar Sadhu, Ankita Ghosh, Nitai Pal
Journal of Power Technologies, Volume 98, Year 2018, Pages 20-29

95. **Stability and Harmonic Analysis of A Transient Current Limiter in Distribution System**

Alok Kumar Shrivastav, Pradip Kumar Sadhu , Ankur Ganguly
Microsystem Technologies, Volume 25, Year 2018, Pages 1833-1839

96. **Analysis of High-Frequency Class E Resonant Inverter and its Application in an Induction Heater**

C. Gorain, P. K. Sadhu and R. Raman
2018 2nd International Conference on Power, Energy and Environment: Towards Smart Technology (ICEPE), Shillong, India, Volume , Year 2018, Pages 1-6

97. **Asymmetrical duty cycle phase-shifted dual output induction cooker**

Chakraborty A.;Sadhu P.K.;Chakrabarti A.;Basak A.;Pal N.
Revue Roumaine des Sciences Techniques Serie Electrotechnique et Energetique, Volume 63, Year 2018, Pages 65-70

98. **Modern Utilization of Electric Power**

Pradip Kumar Sadhu and Soumya Das
Modern Utilization of Electric Power, Volume , Year 2018, Pages 1-364

99. **Brain Emotional Learning based Intelligent Controller for Induction Heating Systems**

Arijit Chakrabarti, Pradip Kumar Sadhu, Avijit Chakraborty and Palash Pal
REVUE ROUMAINE DES SCIENCES TECHNIQUES-SERIE ELECTROTECHNIQUE ET ENERGETIQUE , Volume 63, Year 2018, Pages 58-64

100. **Problems in the accomplishment of solar and wind energy in India**

Sharma H.;Kumar P.;Pal N.;Sadhu P.K.
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101. **Parameters estimation and life cycle economic analysis of a PV powered**

tri-cycle in India

Soumya Das, Pradip Kumar Sadhu, Anup Majhi, Udayan Ghatak, Tuhin Bandyopadhyaya
Archives of Electrical Engineering, Volume 67, Year 2018, Pages 655-665

102. **Improvement in Performance of Induction Heating System Using Direct AC-AC Boost Converter**
A. Kumar, R. Raman, D. Sarkar, P. K. Sadhu and A. Banerjee
2018 2nd International Conference on Power, Energy and Environment: Towards Smart Technology (ICEPE), Shillong, India, Volume , Year 2018, Pages 1-5
103. **A Novel Three Phase to Seven Phase Conversion Technique Using Transformer Winding Connections**
Tabrez, M and Sadhu, PK and Iqbal, A
Engineering, Technology & Applied Science Research, Volume 7, Year 2017, Pages 1953--1961
104. **Forecasting PV power from solar irradiance and temperature using neural networks**
S. Ramaswamy and P. K. Sadhu
2017 International Conference on Infocom Technologies and Unmanned Systems (Trends and Future Directions) (ICTUS), Dubai, Volume , Year 2017, Pages 244-248
105. **Classification of myopathy and neuropathy EMG signals using neural network**
R. Swaroop, M. Kaur, P. Suresh and P. K. Sadhu
2017 International Conference on Circuit ,Power and Computing Technologies (ICCPCT), Kollam, Volume , Year 2017, Pages 1-5
106. **P&O algorithm based MPPT technique for solar PV system under different weather conditions**
M. L. Azad, S. Das, P. Kumar Sadhu, B. Satpati, A. Gupta and P. Arvind
2017 International Conference on Circuit ,Power and Computing Technologies (ICCPCT), Kollam, Volume , Year 2017, Pages 1-5
107. **Stability improvement of captive generator sets utilizing FACTS device**
Goswami U.;Chanda M.;Ganguly A.;Sadhu P.;Chakraborty S.
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